## **ATTACHMENT 2**

## **Regional Community Assessment**

## **Monitoring and Modeling Studies**

This table represents information provided by the regions for the past and on-going air toxics activities which evaluate and address concerns about air toxics at the community level. Some of these activities are only monitoring sites supporting the air toxics monitoring network. Other activities include complete participation by local communities in assessing and addressing the local air toxics concerns. Many of the projects include development of local emission inventories, modeling, and monitoring information. EPA is developing a complete database to be located on the TTN website which will include more detailed information on these air toxics studies.

For additional information, contact:

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Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Region 1				
Ongoing/Planned				
Merrimack Valley, MA 5 cities/towns	Assessment to identify reduction priorities	air toxics/stationary, mobile, indoor	Susan Lancey Region 1 617-918-1656 Barbara Driscoll OAQPS 919-541-1051	Review emissions data for use by existing community involvement networks in 5 diverse Merrimack Valley towns to clarify, prioritize, and select the most crucial toxics issues; these will then be addressed for reduction by appropriate interventions and/or regulatory strategies.
New Haven CT	Toxics Inventory Development	Greenhouse gases and toxics	Mary Beth Smuts/ Barbara Driscoll	Beginning development of emission inventory and local action plan.
Lawrence MA	Inventory and Modeling	All Sources	Allen Jarrell/ Barbara Driscoll	Project will evaluate whether the cumulative risks due to air pollution (incinerators) contribute to high asthma rates.
Manchester NH: area around airport	Inventory of sources and emissions( 1996)	Air toxics-all sources	Bob White- NHDES/Doug Koopman-Air	Evaluation of 7 sq mile urban area will use information to target and conduct inspections.
Manchester, NH-school ongoing	Monitoring-inside and out	VOCs, particulates and aldehydes	Rick Rumba- NHDES/Dr. Rosemary Caron	Indoor/outdoor monitoring in school to correlate with asthma records
Providence RI	Monitoring (2000 pilot site)		Barbara Morin- RIDEM	One of 10 cities picked for new air toxics monitoring .
Past				
Olneyville,Providence, RI ( 1990-91)	Monitoring	Air toxics-area sources	Barbara Morin- RIDEM/MSmuts- RegI	Hotspot analysis of jewelry industries in neighborhood

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Chelsea MA	EPCRA Inventory	Air Toxics- all sources	Dwight Peavey- EPCRA	Ranked HAPs based on quantity of release and health effects
Bridgeport CT (1987-1988)		Air Toxics		Data used in EPA, 1994, A Screening  Analysis of Ambient Monitoring Data for the  Urban Area Source Program.
Springfield/Chicopee MA (1987-1988)		Air Toxics		Data used in EPA, 1994, A Screening Analysis of Ambient Monitoring Data for the Urban Area Source Program.
Region 2				
Ongoing/Planned				
Protecting Communities from Toxics, South Camden, NJ	Assessment to identify reduction priorities	air toxics/stationary, mobile	Marlon Gonzales Region 2 212-637-3769 OAQPS contact to be identified; in interim, Barbara Driscoll	Responding to high-exposure area citizens' concerns, an array of inventory, modeling and monitoring tools will be used to characterize risks and to trigger appropriate risk reduction strategies.
Syracuse, NY		Indoor air		Current study assessing impact of multiple pollutants on indoor environment
Puerto Rico	Monitoring (2000 pilot site)			One of 10 cities picked for new air toxics monitoring.
Vicinity of World Trade Center, NY	Monitoring	Variety of air toxics	John Fileppelli	Monitoring ambient and worker exposure to air toxics at WTC site and near vicinity. Data potentially to be used for future risk assessment.
Past				
Staten Island, NJ (1987-1991)	Ambient and meteorological data collection, indoor air sampling, EI developed	VOCs, PM and metals	Conrad Simon, Robert Kelly, Rudolph K. Kapichak, Carol Belizzi	Qualitative risk assessment performed for indoor and ambient air. Initiated on citizen complaints.
Region 3				
Ongoing/Planned				

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Delaware Air Toxics Assessment Study (DATAS)	Assessment to characterize risk	air toxics/stationary, mobile	Melik A. Spain Region 3 215-814-2299 Greg Nizich OAQPS 919-541-3078	Development of monitoring network and speciated HAP inventory to integrate with ambient air quality modeling and meteorological components to define regional/local risks.
Baltimore Traffic Study	Regional monitoring site, indoor and personal monitoring	mobile sources w/ indoor air included, PM, toxics	OTAQ	Assess mobile source impacts on indoor and outdoor air pollution concentrations of PM and gaseous toxics in a home and school.
West Virginia site	Monitoring (2000 pilot site)	28 air toxics	Ted Erdman	One of 10 cities picked for new air toxics monitoring .
Urban sites and two special studies	Monitoring (2001 pilot sites)	28 air toxics	Ted Erdman	Two year data collection for eleven urban sites throughout region and one year data collection in two areas (three monitors/ area)
Philadelphia, PA	Monitoring/Modeling/Risk Estimation	air toxcis/stationary, mobile, indoor	Ray Chambers, Reg 3 215-814-2061 Greg Nizich, OAQPS 919-541-3078	Uses modeling to better define city's health risks and estimate potential reductions, to inform public and seek government/business support for reduction measures
Past				
Baltimore Community (1996-2000)	Inventory, ISCST3 model	Air toxics	Hank Topper with OPPT	Risk based screening w/ results prioritizing chemicals and facilities. Report issued in April 2000
Chester, PA (1995)	Multi-media risk study (criteria and TRI inventory, ISCST2 and CAL3QHC models used)	Air toxics, surface and groundwater, fish tissue, lead, RCRA/Superfund facilities, noise, odor	Dianne McNally, Patrick Anderson	Risk assessment based on ambient pollutant concentrations were modeled with ISCST2/CAL3QHC. Recommendations made for lead paint, targeting sources of air emission, and voluntary emission reductions.
Southern Delaware County Air Monitoring Project (1995-2000)	Monitoring and risk assessment	Volatile toxics, metals, PM	Ted Erdman (R3) and PADEP	Long-term monitoring project of three sites (Chester, Marcus Hook and Swarthmore)
Kanawha Valley Toxics Screening Study (July 1987)	Multi-media risk study (point/area inventory and ISCLT modeling)and monitoring	20 air toxics, drinking and surface water, haz. waste	Dianne McNally and WVDEP	Recommendations include improving inventory, modeling and monitoring techniques, evaluate non-cancer risks. WV developed toxics regulation to address 14 pollutants.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Pilot Multi-media Environmental Health Characterization Study of South and Southwest Philadelphia (1997)	Inventory evaluation, health and demographic assessment	Air toxics, drinking and surface water, haz. waste, lead, radon	Len Mangiaracina	Conclusions include automobiles are biggest source of pollution, cancer mortality 40% higher than national rate. Reccos include improving communication between local agencies and community to empower community to make environmental decisions.
An Environmental Characterization of the District of Columbia (1997)	Multi-media inventory evaluation	Air toxics, criteria pollutants, surface water, haz. waste		Conclusion is that indoor air is primary problem.
Tri-States Initiatve (Kenova, WV)	see description under Region 4		Jeff Burke	
Kanawha Valley WV		Air Toxics		Data used in EPA, 1995, Summary of Urban Air Toxics Risk Assessment Screening Studies to Support the Urban Area Source Program.
Philadelphia PA		Air Toxics		Data used in EPA, 1995, Summary of Urban Air Toxics Risk Assessment Screening Studies to Support the Urban Area Source Program.
Region 4				
Ongoing/Planned				
Chattanooga TN	Monitoring	Air Toxics	Vivian Doyle, Region 4	Community Based Environmental Protection Project to assess the affect of air toxics on the Chattanooga Community.
Louisville KY	Monitoring	Air Toxics	Vivian Doyle, Region 4	Community Based Environmental Protection Project to assess the affect of air toxics on the Rubbertown Community in Louisville.
Mobile AL	Monitoring, modeling, inventory	Air Toxics	Van Shrieves Region 4	Community Based Environmental Protection Project to assess the affect of air toxics on the community in Mobile County, Alabama.
Charlotte and Mecklenburg County			Chris Stoneman, OAQPS; Lee Page Reg 4 Alan Powell Reg4	Pilot project to test success of concentrated regional environmental dialogue and cooperation in a smaller confined area.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Tampa FL	Monitoring	Air Toxics	Van Shrieves - Region 4	This is one of the 10 national air toxics monitoring sites under the National Air Toxics Monitoring Program. The information developed under this project, in conjunction with the national data analysis project, will be used to develop a national air toxics monitoring strategy.
Southeast Florida Air Toxics Study (Broward, Dade, and Palm Beach Counties)	Monitoring and inventory	Air Toxics	Van Shrieves, Region 4	Three-county monitoring effort to characterize ambient concentrations of selected air toxics and to develop a comprehensive emissions inventory in southeast Florida.
Piedmont of NC, SC, GA	Monitoring	Air Toxics	Van Shrieves, Region 4	Three-state monitoring effort to characterize ambient concentrations of selected air toxics in rural and smaller cities in the southeast.
Tristate Geographic Initiative, Greenup Industrial Cluster	Monitoring, modeling, and inventory	Air Toxics	Jackie Lewis, Region 3, 4, and 5	Community Based Environmental Protection Project to assess the affect of air toxics on the community in the vicinity of Greenup, KY.
Huntsville, AL	Modeling and inventory	Air Toxics	Leonardo Ceron, Region 4	Update and expand existing hazardous air pollutant inventory. Conduct dispersion modeling to evaluate impact of air toxics on residential areas.
Jacksonville, FL	Monitoring and inventory	Air Toxics	Van Shrieves, Region 4	Operation of six mobile and three stationary monitoring sites. Conduct a comprehensive emissions inventory.
Hinds, Jackson, Harrison, and Lee Counties, MS	Monitoring	Air Toxics	Van Shrieves, Region 4	State monitoring initiative to quantify overall impact of toxics emission sources in areas of high concentration of air toxics.
Knox County, TN	Monitoring	Air Toxics	Van Shrieves, Region 4	Analysis of trace metals from TSP samples in an area of the county's highest particulate concentration.
Jefferson County, KY	Inventory and modeling	Air Toxics	Van Shrieves Region 4	Emissions inventory, dispersion modeling, and risk characterization will be conducted with focus on area and mobile sources.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Mobile, AL	Monitoring (Part of National Estuary Program)	Air Toxics	Thomas Dzomba, Region 4	Collection of data to determine the chemistry of precipitation for monitoring of geographical and temporal long-term trends. Analytes include acidity pH, base cations and mercury. Study is part of the National Atmospheric Deposition/National Trends/ Mercury Deposition Network.
Kingsport, TN	Monitoring	Air Toxics	Van Shrieves, Region 4	Study focusing on air toxics monitoring to characterize air quality.
Nashville, TN	Monitoring	Air Toxics	Van Shrieves, Region 4	Operation of two population oriented monitoring sites to obtain a better understanding of air quality conditions.
South Florida (Everglades, FL)	Monitoring	Air Toxics	John Ackermann, Region 4	Atmospheric transport and deposition studies on mercury including comparisons of methods.
Charlotte, NC	Monitoring	Air Toxics	Van Shrieves, Region 4	Operation of a mobile monitoring lab in order to secure a better understanding of the influence of a large urban center on regional atmospheric mercury, volatile organic, and carbonyl compound levels.
Past				
Tristate Geographic Initiative, Kenova Industrial Cluster	Monitoring, modeling, and inventory	Air Toxics	Jackie Lewis, Region 3, 4, and 5	Community Based Environmental Protection Project to assess the affect of air toxics on the community in the vicinity of Kenova, WV.
Louisville KY	Monitoring, modeling, inventory	Air Toxics	Van Shrieves, Region 4	Evaluation of potential usage of open path monitoring and meteorological technology to support toxics release inventory.
Augusta, GA	Monitoring, modeling, inventory	Air Toxics- mercury	Van Shrieves, Region 4; Danny France, SESD	Conducted study to evaluate mercury releases from a chlor-alkali facility. Results from the study were used to set new MACT for this facility category.
Tampa Bay, FL	Monitoring and deposition	Air Toxics	John Ackermann, Region 4	Completed one year atmospheric deposition study of persistent toxics in rainfall.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Atlanta, GA	Monitoring using open path, continuous gas chromatography, and conventional sampling technology. Modeling and emissions inventory.	Air Toxics/Ozone Precursors	Van Shrieves, Region 4; Bob Stevens, OAQPS	Data used by EPA in A Screening Analysis of Ambient Monitoring Data for the Urban Area Source Program. Monitoring network and data was a pilot study to help establish the national Photochemical Assessment Monitoring Stations (PAMS) network.
Jacksonville FL (1986-1987)		Air Toxics		Data used in EPA, 1994, A Screening  Analysis of Ambient Monitoring Data for the Urban Area Source Program.
Region 5				
Ongoing/Planned				
Indianapolis Public School #22 - Local Air Risk Assessment and Risk Reduction Project, Indianapolis, IN	Assessment and reduction	air toxics/stationary, mobile	Randy Robinson Region 5 312-353-6713 Lara Autry OAQPS 919-541-5544	Supplements a more detailed local air toxics risk assessment on a neighborhood and sources surrounding a local public school. Proposal includes a pollution prevention audit of a coking facility, an environmental audit of the public school, and investigates other risk mitigation opportunities.
NATA Point Source Inventory Refinement in RAPCA Jurisdiction, Dayton, OH	Assessment	air toxics, VOCs/stationary	Michael Compher Region 5 312-886-5112 Lara Autry OAQPS 919-541-5544	Refine point source inventory to include all sources and enable modeling to locate hotspots, and to select monitoring and risk reduction locations.
Cleveland OH	Inventory/Modeling/Risk Reduction	Indoor, outdoor and mobile	Bill Long ORIA , Jack Barnette Reg 5, Janet Cohen OTAQ, Steve Fruh OAQPS	Intended to demonstrate an approach in which local stakeholders, with advice and support from EPA work collaboratively to reduce risks from air toxics in short term while also putting longer-term strategies in place.
Devils Lake, WI	Inventory, modeling	Mercury	Erin White	Characterize atmosphere emissions, transport, deposition, and bioaccumulative interrelationships for TMDL development applications.
Indiana Harbor, IN	Inventory/Modeling/Monitorin g/Risk Assessment	Toxics contained in contaminated sediments	George Bollweg	Characterize community impacts from volatilized dredged toxic sediments

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Detroit MI	Personal/indoor air monitoring	Allergens and certain volatiles	Christopher Saint, ORD	Asthma/Children's Study
Detroit MI	Monitoring (2000 pilot site)			One of 10 cities picked for new air toxics monitoring.
Chicago IL	monitoring		Suzanne King, Region 5/ Ellen Wildermann, OAQPS	Cumulative Risk Initiative around airport in Chicago.
Twin Cities MN	Personal exposure monitoring	Indoor, outdoor	Michele Palmer	Characterize Risk
Region-wide	Emissions Inventory development of 189 toxics pollutants	Point, area, mobile	Suzanne King	Database available for multiple uses, including atmospheric deposition
Past				
Flint, MI	Inventoried 21 TRI facilities and 54 facilities from MI inventory. Used ISCL2 dispersion model.	Chemicals released from plant except for NAAQS		Title VI request to evaluate power plant permit. Developed estimate of human health risks resulting from emissions under 1992 permit for Genesee Power Plant, and risks from multiple sources in vicinity. Only considered inhalation.
SE Chicago IL (1989)	ISCLT and CDM-2 models used.	30 air toxins		All point and area sources in an 817 sq mile area were modeled using ISCLT and CDM-2. Greatest risk attributed to coke oven emissions.
9 Facilities, MI	Applied IRAP model (based on RCRA guidance developed in Region 6)			Selected 9 facilities which were MWCs and WWBs throughout Michigan. Conducted risk assessment and identified cancer and non-cancer risks for inhalation pathway, resident exposure scenario, and subsistence fisherman scenario.
Cook County IL and Lake County IN	used TRI and RAPIDS inventories; hazard ratios from CEP model			Response to TSCA petition to evaluate air permitting process. Hazard screening report covers two counties in two states. Evaluates hazard not risk with toxicity-weighted emission estimates and "hazard ratios" from modeled and outdoor air monitoring data.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Detroit MI and Windsor, Ontario Canada (1985-1988)	Inventory and ISCLT3 model	Air Toxics		Developed inventory of emissions and modeled using ISCLT3. Formaldehyde was the largest contributor to cancer risk, next was coke oven emissions, 1,3-butadiene, and carbon tetrachloride.
Minneapolis/St. Paul MN	Inventory and ISCLT3 for point sources and CDM-2 for area sources	Air Toxics		Developed inventory, modeled and determined cancer risk. Over 61% of risk due to road vehicles.
Columbus OH (1989)		Air Toxics		Data used in EPA, 1994, <u>A Screening</u> <u>Analysis of Ambient Monitoring Data for the</u> <u>Urban Area Source Program</u> .
Lake Michigan Basin (1991)		Air Toxics		Data used in EPA, 1994, A Screening Analysis of Ambient Monitoring Data for the Urban Area Source Program.
Columbus and Akron OH (1987)		Air Toxics		Data used in EPA, 1994, <u>A Screening</u> <u>Analysis of Ambient Monitoring Data for the</u> <u>Urban Area Source Program</u> .
Cincinnati OH (1989 - 1991)		Air Toxics		Data used in EPA, 1994, <u>A Screening</u> <u>Analysis of Ambient Monitoring Data for the</u> <u>Urban Area Source Program</u> .
Region 6 (AR,LA,NM,OK,TX)				
Ongoing/Planned				
Texas  OAQPS/Region 6/Texas  4-Area Air Toxics Project  Port Neches Port Arthur Texas City El Paso	vary by area	vary by area	Ruben Casso, Region 6 Mark Morris, OAQPS	The assessments will focus on State and Federal agency experience to identify roadblocks, needs and potential solutions in assessing and addressing air toxics risk.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Adopt a School Bus Program, TX	Reduction	air toxics (diesel PM), PM, NOx/mobile	Steven Pratt Reg 6 214-665-2140 Jim Blubaugh, OTAQ 202-564-9244 Yvonne Chandler OAQPS 919-541-5627	Replace pre-1977 buses, develop alternative fuel infrastructures and provide PM retrofit for diesel school buses to reduce student exposure to newer diesel PM and NOx.
Louisiana Calcasieu Parish	The enhanced sampling which began in January 2001 For VOCs, a 24-hour average sample will be collected every sixth day for three years. For dioxins, furans, and coplanar PCBs, a 30-day average sample will be collected every other month for one year.	107 different volatile organic compounds (VOCs), dioxins, furans, and coplanar PCBs at five sampling locations throughout the airshed	Region 6 contacts Steve Thompson Sunita Singhvi	EPA Region 6, the Louisiana Department of Environmental Quality and local industry are contributing to an extensive air toxics sampling effort in Calcasieu Parish. A year of sampling has been conducted and an evaluation and report of the latest monitoring data in light of the state ambient air toxics standards will be completed.
Oklahoma Ponca City	inventory is done by state  modeling & risk assessment to be conducted by EPA in coopertaion with ODEQ	refineries	Ruben Casso - Region 6	Local air toxics emissions/impacts/risk assessment in the Ponca City area project would also serve to build state capacity(tools, knowledge, ability)
Oklahoma Tulsa	inventory to be done by state  modeling & risk assessment to be conducted by EPA in cooperation with ODEQ	urban area - mix of stationary/mobile sources	Ruben Casso - Region 6	potential project based on the results/lessons learned from Ponca City, OK pilot project the Tulsa area is larger and has more of a mobile source component
Oklahoma City	ambient air monitoring study in Oklahoma City in December 2000 and Spring 2001.	dioxin	Steve Thompson Region 6	The purpose of the study is to obtain data which may be useful in determining background urban levels of dioxin in the air where no major dioxin emission sources are located.
New Mexico Corrales, NM	under discussion project is likely going to be a 30-day monitoring effort	to be determined	Ruben Casso Steve Thompson- Region 6	citizen complaints alleging health effects from emissions in the area,  New Mexico requested Region 6 assistance to help investigate potential levels and impacts of local air toxics near Corrales, NM

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Rio Rancho, NM	12 months of ambient monitoring	at least 18 hazardous air pollutants	Mark Sather - Region 6	small cities air toxics monitoring project with coordinated with stationary and mobile source emission inventory work
Region 6 has 5 sites in the National Dioxin Air Monitoring Network in Arkansas, Oklahoma, and Texas		dioxin	Steve Thompson Region 6	EPA Region 6 has 5 sites in the national dioxin air monitoring network in Arkansas, Oklahoma, and Texas in cooperation with the state environmental agencies. National Dioxin Air Monitoring Network The data is intended to help determine background dioxin levels where no major dioxin emission sources are located.
Channelview, TX - Community Involvement Joint Effort -EPA and TNRCC and Harris County	Citizen monitoring by tedlar bags and canisters	VOCs	William Rhea- Region 6	An effort to educate citizens on air sampling, air data availability and air program implementation.
LA/TX Voluntary Episodic Release Reduction Project	Episodic Releases	chemical industry	Barry Feldman Region 6	Region 6 worked with selected facilities to voluntarily seek and obtain the reductions in the incidence of, and emissions from, episodic emissions from facility upsets and malfunctions.
Houston Ozone Nonattainment Area	Episodic Releases	VOC	Jim Yarbrough Region 6	Investigating the feasibility of documenting significant episodic releases of VOC emissions from facility malfunctions/upsets and start-up/shutdowns in the Houston area. This pilot project will seek the cooperation of area stakeholders to help identify, track and document these emissions and their impact on local air quality.
Recent				
Port Neches TX	monitoring inventory modeling and risk assessment completed	local assessment of chemical plant area	Ruben Casso, Jeff Yurk, Region6/ Mark Morris, OAQPS	Region 6 initiated study of HON facilities evaluating ways to reduce risk.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
North Little Rock/Little Rock, AR	30-day toxics monitoring and risk & health screening	wood treatment facility	Steve Thompson and Ruben Casso - Region 6	EPA Region 6 and the Agency for Toxics Substances and Disease Registry (ATSDR) provided risk and health screening evaluations, respectively of 30-days of ambient air toxics monitoring data collected by the State of Arkansas around the Koppers' Industries wood treatment facility.
Past				
Houston TX (1990)	Inventory based on Houston- Galveston ozone SIP, and RAM dispersion model used	Air Toxics		Past monitoring and emission inventory development. Modeled results using traditional approaches (population distributions or land use distribution), compared with GIS.
Texas- Dallas/Fort Worth and Houston/Harris County	Monitoring data and modeling	12 Air Toxics		Asbestos, chromium, benzene, formaldehyde, allyl chloride, acrylonitrile, and ethylene dichloride of concern.
Combustion Facilities	ISCST-3 dispersion model used on a 100 meter grid.		Jeff Yurk, Cynthia Kaleri, Steve Thompson	Evaluated health risks in communities closest to incinerators. Developed a risk-based tool to evaluate these sites. Trace back to large facilities were reductions should be made
Chambers, Harris, Jefferson, and Orange County, TX (1987-1991)		Air Toxics		Data used in EPA, 1994, <u>A Screening</u> <u>Analysis of Ambient Monitoring Data for the</u> <u>Urban Area Source Program</u> .
Baton Rouge LA (1988-1992)		Air Toxics		Data used in EPA, 1994, <u>A Screening</u> <u>Analysis of Ambient Monitoring Data for the</u> <u>Urban Area Source Program</u> .
Region 7				
Ongoing/Planned				

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
St. Louis MO	ASPEN model and ambient monitoring data.	air toxics, VOCs, NOx, PM/stationary, mobile, indoor	Jim Hirtz Region 7 913-551-7472 Yvonnew Johnson OAQPS 919-541-2798	Improve outdoor monitoring capability and prepare outreach materials providing real-time data on key pollutants (e.g., formaldehyde) and their significance, for the public to use in reducing exposure and in making decisions on reduction strategies. Also monitor formaldehyde indoors, if possible.
Iowa rural monitoring site	Monitoring (2000 pilot site)			One of 10 locations picked for new air toxics monitoring .
Past				
Region 8				
Ongoing/Planned				
Denver County	Emission inventory, modeling and monitoring	air toxics/stationary, mobile and indoor	Victoria L. Parker- Christensen, Reg 8 303-312-6441 Peter Murchie OAQPS 503-326-6554 Jim Blubaugh OTAQ 202-564-9244	Initiate implementation phase, based on completed assessment. Analyze existing programs, engage voluntary support to pilot new reduction strategies.
Green Fleets Outreach and Awareness Program Denver, CO	Reduction	air toxics (diesel PM), PM/mobile	Anne-Marie Patrie Region 8 303-312-6524 Peter Murchie OAQPS 503-326-6554 Jim Blubaugh OTAQ 202-564-9244	Reduce diesel emissions by involving public/private fleet owners/operators of both on- and off-road equipment in voluntary education and recognition program
Colorado	Monitoring (2000 pilot site)			One of 10 cities picked for new air toxics monitoring.
Parchute, Colorado	Risk Assessment	Air Toxics	Lawrence Wapensky	Pilot air toxics risk assessment of natural gas field, dehydration units and other local sources

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Pueblo, Colorado	Monitoring/modeling/risk characterization	point, mobile, air toxics	Lawrence Wapensky	Characterize and quantify emissions form Rocky Mountain Steel Mill, Comanche power plant, local cement plant, potential incineration of mustard nerve agent at Pueblo Army Depot, mobile, fugitive and growth
Past				
Region 9				
Ongoing/Planned				
West Oakland California Air Toxics/ Environmental Justice Funding Proposal, CA	Assessment and reduction	air toxics (diesel PM), PM/mobile	Richard Grow, R9 415-947-4104 JoLynn Collins OAQPS 919-541-5671 Chad Bailey, OTAQ 734-214-4954	Document traffic/idling diesel truck Port- related traffic patterns and impacts. Inform citizens of available resources, research mitigation options, involve owner/operators.
Henderson, Nevada (Clark County) Air Toxics/ Environmental Justice Funding Proposal, NV	Assessment	air toxics, PM/ stationary, mobile	Roy Ford 415-972-3997 Region 9 Peter Murchie OAQPS 503-326-6554	Initiate voluntary gaming industry energy efficiency program, with collateral PM reduction, plus air toxic assessments to form basis for program in very rapidly growing county.
Children's Environmental Health Protection Monitoring; Community Health Program: Barrio Logan (SD), CA	Inventory, Modeling, Monitoring, Risk Characterization	Toxics, diesel PM	CARB Dale Shimp (CARB)	Community level assessment conducted by CARB as part of its overall risk-based program (monitoring completed)
Children's Environmental Health Protection Monitoring; Community Health Program: Boyle Heights (LA), CA	Inventory, Modeling, Monitoring, Risk Characterization	Toxics, diesel PM	CARB Dale Shimp (CARB)	Community level assessment conducted by CARB as part of its overall risk based program (expected to complete monitoring in March 2002)
Children's Environmental Health Protection Monitoring; Community Health Program: Wilmington (LA), CA	Inventory, Modeling, Monitoring, Risk Characterization	Toxics, diesel PM	CARB Dale Shimp (CARB)	Community level assessment conducted by CARB as part of its overall risk based program (expected to complete monitoring in May 2002)

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Children's Environmental Health Protection Monitoring; Community Health Program: Crockett (Contra Costa), Fruitvale (Oakland), and Fresno	Inventory, Modeling, Monitoring, Risk Characterization	Toxics, diesel PM	CARB Dale Shimp (CARB)	Community level assessment to be conducted by CARB as part of its overall risk based program. Expected to start monitoring at Crockett in Oct. 2001, and at Fruitvale in Nov. 2001. Monitoring schedule for Fresno is to be determined.
Maricopa County, AZ	Design a comprehensive inventory and monitoring network	Toxics, PM, VOCs	Doug McDaniel (USEPA R9); Barbara Driscoll (OAQPS)	Joint Air Toxics Assessment Project: collaborative efforts among Tribes, State, County, OAQPS, and R9; special emphasis on three Indian reservations located within the study area; is also one of the six potential project areas for the R9 Air Toxics/EJ Initiative; initial workplan to be developed
Pearl City HI	Future work not decided yet. 1 monitor in place	PM(currently); toxics to be installed	USEPA R9 Roy Ford	R9 Air Toxics/EJ Initiative: one of the six potential project areas; initial scoping; initial workplan to be developed
Clark County NV	Area of focus would be Henderson City NV Monitoring and inventory development	Toxics	USEPA R9 Ken Israels	R9 Air Toxics/EJ Initiative: one of the six potential project areas; initial scoping completed; initial workplan to be developed; Working closely with CCAQMD
SF Bay Area, CA	West Oakland; Richmond (one dioxin monitor)	Toxics	USEPA R9 Richard Grow	R9 Air Toxics/EJ Initiative: one of the six potential project areas; continue scoping efforts; draft initial workplan to be developed
Los Angeles Airport, CA	Initial focus would be on active R9 involvement in current and future studies and activities at LAX	Toxics	USEPA R9 Pam Tsai	R9 Air Toxics/EJ Initiative: one of the six potential project areas; initial scoping and data gathering completed; draft initial workplan to be developed
LA Alameda Corridor, CA	Initial focus on active R9 involvement with Gateway Cities's Diesel Emission Reduction Program; possibly work with CARB in the Wilmington area including Federal Measures at the Ports of LA and Long Beach	Diesel emissions	USEPA R9 Valerie Cooper	R9 Air Toxics/EJ Initiative: continue scoping evaluation (one of the six potential project areas); draft initial workplan to be developed

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
LAWA Source Apportionment Study at LAX	Monitoring at LAX and neighboring communities	Toxics and criteria pollutants	USEPA R9 Winona Victery/ Pam Tsai	Project is put on hold after Sept. 11; LAWA is seeking funding from EPA
San Jacinto, CA	Part of the ten cities monitoring pilot project (four urban sites and six rural sites)	Toxics	OAQPS Sharon Nizich	One of the six small city/rural sites selected for the FY2000 national air toxics monitoring pilot project
Los Angeles, CA	Air sampling in and outside bus	diesel, PM, CO, N2O, formaldehyde/ mobile sources	OTAQ	School bus exposure assessment to quantify in-vehicle, outside vehicle, near vehicle and ambient exposures to diesel exhaust.
Fresno FACES	Indoor and personal sampling, neighborhood monitoring and EPA supersite	PM, toxics, ozone, environmental tobacco smoke, biological agents/Indoor	CARB Tracy Hysong	Began in Oct/Nov 2000. Study of the effect of air pollution on 450 asthmatic children. Examines short term effect of daily air pollution on the symptoms, medication use, and lung function of these children and longer-term effect on the progression of asthma. OTAQ adding additional funding to look at mobile hot spots. Expect to have final reports in 2005.
Past				
Flight Path Particulate Fallout Study in the Area of LAX (2000)	Monitoring during weeks of April-May 2000 in Inglewood	Combusted oil soot particles	SC AQMD Henry Hogo	The study was conducted as a follow-up to an earlier study that found abundant combusted oil soot particulates around LAX.
Air Monitoring Study in the Area of LAX (1999)	One-month monitoring in the vicinity of LAX	Air Toxics, Diesel PM	SC AQMD Henry Hogo	The study was conducted to address public concerns about air pollution that may be attributable to LAX operations.
South Coast Air Basin, CA (1998-1999)	Monitoring, emission inventory update, and modeling	Air Toxics	SC AQMD Henry Hogo	Multiple Air Toxics Exposure Study-II; quantify the magnitude of population exposure risk from "existing" sources; monitoring at ten fixed sites and 14 microscale community locations
Phoenix, Tucson, Casa Grande, and Payson, AZ (1994-1995)	Monitored for a year in residential backyards, Atmospheric Simulation Model used	Air Toxics		Monitored and modeled air toxics in residential areas. 1,3-butadiene, benzene, formaldehyde, arsenic, carbon tetrachloride, acetaldehyde, and chloroform greatest risk.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Los Angeles CA (1995-1998)	3 monitors in Los Angeles County	10 Air Toxics		Average concentrations compared with 1 in a million cancer risks. Most of risk due to 1,3-butadiene, formaldehyde, and benzene.
Contra Costa CA (1985)	Inventory and modeled using LONGZ	16 Air Toxics		Modeled air concentrations. No health risk assessment done. Highest concentrations were methylene chloride, formaldehyde, benzene, and perchloroethylene.
San Francisco CA (1987- 1993)		Air Toxics		Data used in EPA, 1994, A Screening Analysis of Ambient Monitoring Data for the Urban Area Source Program.
South Coast CA (1986-1993)		Air Toxics		Data used in EPA, 1994, A Screening Analysis of Ambient Monitoring Data for the Urban Area Source Program.
Southern CA (1987-1989)		Air Toxics		Data used in EPA, 1994, A Screening Analysis of Ambient Monitoring Data for the Urban Area Source Program.
Santa Clara CA		Air Toxics		Data used in EPA, 1995, Summary of Urban Air Toxics Risk Assessment Screening Studies to Support the Urban Area Source Program.
Region 10				
Ongoing/Planned				
Regional Scale Air Dispersion Modeling for Hazardous and Toxic Air Pollutants in the Treasure Valley, Boise, ID	Assessment	air toxics/stationary, mobile	Brook Madrone R10 206-553-1814 Peter Murchie OAQPS 503-326-6554	Develop regional scale modeling capacity of Idaho DEQ's new Monitoring, Modeling and Emission Inventory group, using more technologically refined tools transferred from WA, to measure Treasure Valley HAP.
Assessment of Emission Inventories and Exposure of Air Toxics Using an Automated Grid Modeling System	Assessment	air toxics, PM, VOCs/ stationary, mobile	Brook Madrone R10 206-553-1814 Peter Murchie OAQPS 503-326-6554	Expand automated air modeling system to include metropolitan Seattle and Portland, and also provide technology transfer assistance in use of the system to Idaho.

Location	Monitoring/Inventory/ Modeling	Pollutants/Sectors	Region Lead/ OAQPS contact	Description
Portland OR	Inventory/Modeling/ Monitoring	Urban air toxics and diesel PM	ODEQ/USEPA Paul Koproski, Brook Madrone/ Peter Murchie	Study will use 96/99 NTI and additional monitoring data to characterize localized risk information and identify/prioritize reduction management options. Will also provide information needed for State risk based air toxics program development (regulation development)
Seattle WA	Monitoring (2000 pilot site)		Brook Madrone	One of 10 cities picked for new air toxics monitoring .
Anchorage, AK (statewide) <a href="http://www.state.ak.us/dec/da">http://www.state.ak.us/dec/da</a> <a href="http://www.state.ak.us/dec/da">wq/aqi/toxicstrategy.htm</a>	Inventory development, monitoring	Benzene/ Indoors and Ambient	Alaska Department of Environmental Conservation	Looking at benzene and other pollutants, indoors and out.
Past				
Tacoma WA				
Bellingham, WA	Ambient and stack monitoring			Ambient and stack monitoring of an incinerator in Bellingham. Incinerator shut down in the 90s.
Port Angeles				EPA and state conducted series of studies to try and determine why asthma rates were 6 times higher than expected.
Seattle WA		Air Toxics		Data used in Radian Corp. 1995, Model City HAP Analysis Memorandum